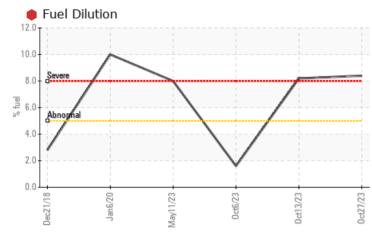


Sample Rating Trend

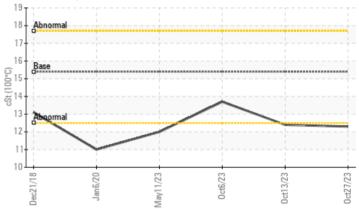
Machine Id 722028-361658

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (8 GAL)

COMPONENT CONDITION SUMMARY



▲ Viscosity @ 100°C



RECOMMENDATION

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	SEVERE	NORMAL			
Fuel	%	ASTM D3524	>5	e 8.4	8.2	1.6			
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	1 2.4	13.7			

Customer Id: GFL829 Sample No.: GFL0065493 Lab Number: 05995384 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Resample			?	We recommend an early resample to monitor this condition.		
Check Fuel/injector System			?	We advise that you check the fuel injection system.		

HISTORICAL DIAGNOSIS



13 Oct 2023 Diag: Wes Davis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



view report

06 Oct 2023 Diag: Wes Davis



 \checkmark

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

11 May 2023 Diag: Wes Davis



We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.









OIL ANALYSIS REPORT



FUEL

X

Machine Id 722028-361658

Component Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (8 GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

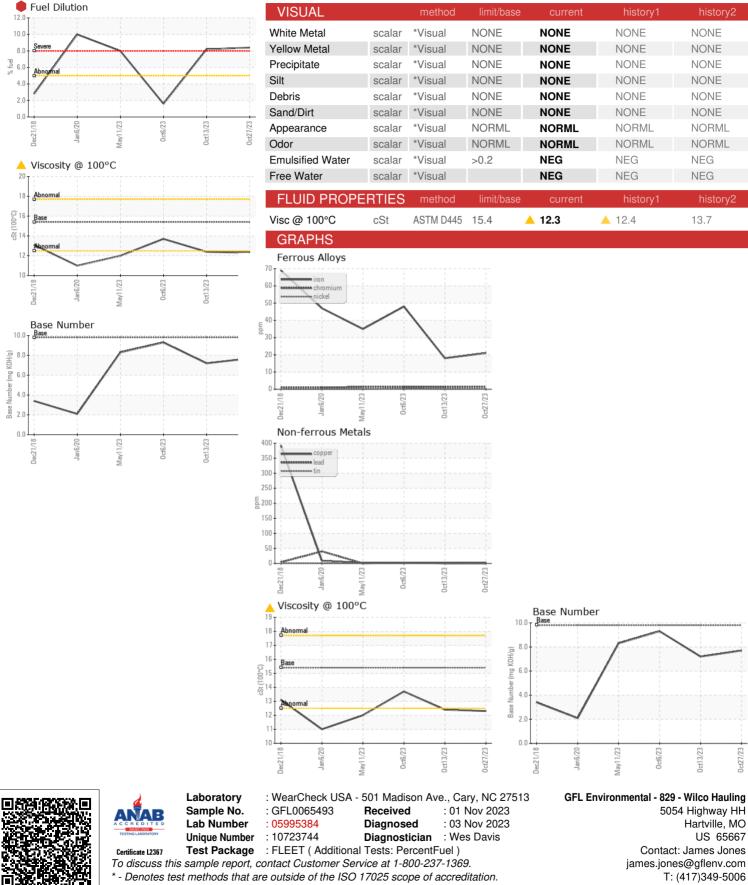
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

		Dec2018	Jan2020 May2023	3 Oct2023 Oct2023	0ct2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0065493	GFL0065473	GFL0065498
Sample Date		Client Info		27 Oct 2023	13 Oct 2023	06 Oct 2023
Machine Age	hrs	Client Info		600	18673	18523
Oil Age	hrs	Client Info		600	150	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				SEVERE	SEVERE	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	21	18	48
Chromium	ppm	ASTM D5185m	>20	1	1	2
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		4	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	2
Copper	ppm	ASTM D5185m	>330	2	1	1
Tin	ppm	ASTM D5185m ASTM D5185m	>15	<1	0	2
Vanadium Cadmium	ppm	ASTM D5185m ASTM D5185m		<1 <1	0	0
	ppm	ASTIVI DOTODIII		<1		-
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	4	4
Barium	ppm	ASTM D5185m		<1	<1	0
Molybdenum	ppm	ASTM D5185m	60	57	53	57
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m	1010	868	866	936 1037
Calcium	ppm	ASTM D5185m ASTM D5185m	1070 1150	973 949	915 933	1037
Phosphorus Zinc	ppm ppm	ASTM D5185m	1270	949 1164	1127	1262
Sulfur	ppm	ASTM D5185m	2060	3152	2641	2996
CONTAMINAN		method	limit/base	current	history1	history2
Silicon		ASTM D5185m		6	6	6
Sodium	ppm	ASTM D5185m	>20	-		
Potassium	ppm ppm	ASTM D5185m	>20	6 3	3 0	3
Fuel	%	ASTM D3103M		8 .4	8 .2	1.6
INFRA-RED	/0	method	limit/base	current	history1	history2
	0/					
Soot %	% Abs/cm	*ASTM D7844 *ASTM D7624	>3	1	0.9	1.5
Nitration Sulfation		*ASTM D7624 *ASTM D7415		10.3	10.0 21.2	9.0 21.0
	Abs/.1mm		>30	21.8	∠1.∠	21.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.5	18.8	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	7.2	9.3



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Jerry Hazel

Page 4 of 4

0ct27/23

F: